DATE: 4/06/2010

INVITATION TO BID
THIS IS NOT AN ORDER

BID NO.: 50-00097264

SOLICITATION #B2010000093

JEFFERSON PARISH

PURCHASING DEPARTMENT
P.O. BOX 9
GRETNA, LA. 70054-0009
504-364-2678

VENDOR:

BUYER: S. Vasquez

BIDS WILL BE RECEIVED IN THE PURCHASING DEPARTMENT, SUITE 4400, JEFFERSON PARISH GENERAL GOVERNMENT BUILDING, 200 DERBIGNY STREET, GRETNA, LA 70053 UNTIL 2:00 PM, 5/06/2010 AND PUBLICLY OPENED UPON COMPLETION OF ADMINISTRATIVE TASKS.

LATE BIDS WILL NOT BE ACCEPTED

NOTE: ONLY BIDS WRITTEN IN INK OR TYPEWRITTEN, AND PROPERLY SIGNED BY A MEMBER OF THE FIRM OR AUTHORIZED REPRESENTATIVE, WILL BE ACCEPTED. PENCIL AND/OR PHOTOSTATIC FIGURES OR SIGNATURES DISQUALIFY BID.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

THE FOLLOWING INSTRUCTIONS APPLY TO ALL BIDS

All bids submitted are subject to these instructions and general conditions and any special conditions and specifications contained herein, all of which are made part of this bid proposal reference. All quotations shall be based on F.O.B. Agency warehouse or job site, anywhere within the Parish as designated by the Purchasing Department. The provisions do not apply to public works projects

Questions on this bid are to be faxed to (504) 364-2693 no later than FIVE (5) working days prior to bid opening. Bid numbers should be mentioned in all requests.

The purpose and intention of this invitation to bid is to afford all suppliers an equal opportunity to bid on all construction, maintenance, repair, operating supplies and/or equipment listed in this bid proposal. JEFFERSON PARISH WILL ACCEPT ONE BID ONLY FROM EACH VENDOR. Items bid must meet or exceed specifications.

JEFFERSON PARISH will accept one price for each item unless otherwise indicated. Two or more prices for one item will result in bid rejection.

If the bid exceeds $20,000.00 and if someone other than a corporate officer signs for the Bidder/Contractor, a copy of a corporate resolution or other signature authorization shall be required for submission of bid. Failure to include a copy of the appropriate signature authorization, if required, may result in the rejection of the bid unless bidder has complied with LSA-R.S. 38:2212(A)(1)(c) or LSA-R.S. 38:2212 (O).

A. AWARD OF CONTRACT: JEFFERSON PARISH reserves the right to award contracts or place orders on a lump sum or individual item basis, or such combination, as shall in its judgment be in the best interest of JEFFERSON PARISH. Every contract or order shall be awarded to the LOWEST RESPONSIBLE BIDDER, taking into consideration the CONFORMITY WITH THE SPECIFICATIONS and the DELIVERY AND/OR COMPLETION DATE.

Preference is hereby given to materials, supplies, and provisions produced, manufactured or grown in Louisiana, quality being equal to articles offered by competitor soutside the state. "LSA-R.S.38:2251-2261"

B. USE OF BRAND NAMES AND STOCK NUMBERS: Where brand names and stock numbers are specified, it is for the purpose of establishing certain minimum standards of quality. Bids may be submitted for products of equal quality, provided brand names and stock numbers are specified. Complete product data may be required prior to award.

C. CANCELLATION OF CONTRACT: JEFFERSON PARISH reserves the right to cancel all or any part if not shipped promptly. No charges will be allowed for parking or cartage unless specified in quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel any contract at anytime and for any reason by issuing a THIRTY (30) day written notice to the contractor.

For good cause and as consideration for executing a contract with Jefferson Parish, vendor conveys, sells, assigns and transfers to Jefferson Parish or its assigns all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of Louisiana, relating to the particular good or services purchased or acquired by Jefferson Parish.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

D. PRICES: Jefferson Parish is exempt from paying sales tax under LSA-R.S. 47:301 (8)(c). All prices for purchases by Jefferson Parish of supplies and materials shall be quoted in the unit measure specified and unless otherwise specified, shall be exclusive of state and Parish taxes.

Quantities listed are for bidding purposes only. Actual requirements may be more or less than quantities listed.

Bidders are not to exclude from participation in, deny the benefits of, or subject to discrimination under any program or activity, any person in the United States on the grounds of race, color, national origin, or sex; nor discriminate on the basis of age under the Age Discrimination Act of 1975, or with respect to an otherwise qualified handicapped individual as provided in Section 504 of the Rehabilitation Act of 1973, or on the basis of religion, except that any exemption from such prohibition against discrimination on the basis of religion as provided in the Civil Rights Act of 1964, or Title VI and VII of the Act of April 11, 1968, shall also apply. This assurance includes compliance with the administrative requirements of the Revenue Sharing final handicapped discrimination provisions contained in Section 51.55 (c), (d), (e), and (k)(5) of the Regulations. New construction or renovation projects must comply with Section 504 of the 1973 Rehabilitation Act, as amended, in accordance with the American National Standard Institute's specifications (ANSI A117.1-1961).

E. RESPONSE TO INVITATION: If your company is unable to bid on this request, please state your reason on bid form, and return to this office before bid opening date. Failure to do so may result in the removal of your company from Jefferson Parish's vendors list.

F. POSTING OF BIDS: Non-Advertised bids will be posted on bulletin board in Suite 4400, Jefferson Parish General Government Building, Gretna, LA, for a period of Five (5) working days after opening date.

Advertised bids will be tabulated and a copy forwarded to each responsive bidder.

IN ACCORDANCE WITH RECENT STATE LEGISLATION JEFFERSON PARISH IS NOW OFFERING ELECTRONIC PROCUREMENT TO ALL VENDORS

JEFFPro is the current Electronic Procurement System being used by the Parish. This system allows vendors the convenience of entering and submitting their pricing online. This is a secure site and no one has access to bid information.

Please follow the Purchasing Department link at purchasing.jeffparish.net to register and review Jefferson Parish solicitations.

The general specifications for construction projects and the purchase of materials, services and/or supplies are those adopted by the JEFFERSON PARISH Council by Resolution No. 113646 or 113647 dated 12/09/09. The general conditions adopted by this resolution shall be considered as much a part of this document as if they were written wholly herein. A copy may be obtained from the Office of the Parish Clerk, Suite 6700, Jefferson Parish General Government Building, 200 Derbigny Street, Gretna, LA 70053.

ADDITIONAL REQUIREMENTS FOR THIS BID

PLEASE MATCH THE NUMBERS PRINTED IN THIS BOX WITH THE CORRESPONDING INSTRUCTIONS BELOW.

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1. All bidders are invited to attend the pre-bid conference. Failure to attend the pre-bid conference shall not relieve the bidder of responsibility for information discussed at the conference. This conference is held to allow questions to be answered and inspect the site with owner's representative, etc. Failure to attend the pre-bid conference and inspection does not relieve the successful bidder from the necessity of furnishing materials or performing any work that may be required to complete the work in accordance with the specification (with no additional cost to the owner).

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

2. Contractor must hold current applicable JEFFERSON PARISH licenses with the Department of Inspection and Code Enforcement. Contractor shall obtain any and all permits required by the JEFFERSON PARISH Department of Inspection and Code Enforcement. The contractor shall be responsible for the payment of these permits. All permits must be obtained prior to the start of the project.

3. **A Louisiana State Contractor's License may be required in accordance with LSA-R.S. 37:2150 et seq. If providing information on the internet (JEFFPro) please enter license number in the vendor comment section of the bid form.**

4. It is the bidder's responsibility to visit the job site and evaluate the job before submitting a bid.

5. Job site must be clean and free of all litter and debris daily and upon completion of the contract. Passageways must be kept clean and free of material, equipment, and debris at all times. Flammable material must be removed from the job site daily because storage will not be permitted on the premises. Precautions must be exercised at all times to safeguard the welfare of JEFFERSON PARISH and the general public.

6. All awards in excess of $5,000.00 for the construction, alteration, or repair of any public works will b reduced to a formal contract which shall be recorded at the contractor's expense. A price list of recordation costs may be obtained from the Clerk of Court and Ex-officio Recorder of Mortgages for the Parish of Jefferson. All awards in excess of $25,000.00 reduced to formal contract will require a performance bond.

7. A performance bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. Performance bond shall be supplied at the signing of the contract.

8. Please indicate if you have insurance: YES _____ NO _____
Successful bidder will be required to furnish proof of insurance to this office.
Successful bidder will be required to furnish Federal I.D. Number.

9. Minimum insurance requirements for this bid are as indicated on the attached sheet.

10. Each bid must be accompanied by a cashier's check, certified check, money order, or surety bid bond in the amount of 5% of the bid, including all alternates.

11. Affidavit required is to be submitted within 10 working days of the bid opening to the Purchasing Department on all solicitations for construction, alteration or demolition of public building or project. (LSA-RS 38:2224)

12. This is a requirements contract to be provided on an as needed basis.

13. In the event that the successful bidder cannot furnish a specific item or material and labor in the required time, JEFFERSON PARISH may purchase on an emergency basis from the next lowest bidder, or available source, until such time as the successful bidder has notified the PARISH in writing that his stock or labor capability has been replenished. The difference in price will be charged against the successful bidder of this contract, and evidence of purchases and price will be provided.

14. Freight charges should be included in total cost when quoting. If not quoted FOB DELIVERED, freight must be quoted as a separate item. Bid may be disqualified if not quoted FOB DELIVERED or if freight charges are not indicated on bid form.

BID FORM

Non Public Works

All Public Work Projects are required to use the Louisiana Uniform Public Work Bid Form

DELIVERY: FOB JEFFERSON PARISH

INDICATE DELIVERY DATE ON EQUIPMENT AND SUPPLIES _____

LOUISIANA CONTRACTOR'S LICENSE NO.: (if applicable) _____

FIRM NAME:_____

ADDRESS::_____

CITY, STATE:_____ZIP:_____

TELEPHONE:( )_____ FAX:( )_____

EMAIL ADDRESS: _____

All prices must be held firm unless an escalation provision is requested in this bid. Jefferson Parish will allow one escalation during the term of the contract, which may not exceed the U.S. Bureau of Labor Statistics National Index for all Urban Consumers, unadjusted 12 month figure. The most recently published figure issued at the time an adjustment is requested will be used. A request must be made in writing by the vendor, and the escalation will only be applied to purchases made after the request is made.

Are you requesting an escalation provision?

YES _____ NO _____

MAXIMUM ESCALATION PERCENTAGE REQUESTED _____%

INITIAL BID PRICES WILL REMAIN FIRM THROUGH THE DATE OF _____.

For the purposes of comparison of bids when an escalation provision is requested, Jefferson Parish will apply the maximum escalation percentage quoted by the bidder to the period to which it is applied in the bid. The initial price and the escalation will be used to calculate the total bid price. It will be assumed, for comparison of prices only, that an equal amount of material or labor is purchased each month throughout the entire contract.

TOTAL PRICE OF ALL BID ITEMS: $ _____

AUTHORIZED
SIGNATURE:_____

SGNING INDICATES YOU HAVE READ AND COMPLY WITH THE INSTRUCTIONS AND CONDITIONS.

NOTE: All bids should be returned with the BID NUMBER and BID OPENING DATE indicated on the outside of the envelope submitted to the Purchasing Department.

INVITATION TO BID FROM JEFFERSON PARISH - continued

BID NO.: 50-00097264

SEALED BID

ITEM NUMBER	QUANTITY	U/M	DESCRIPTION OF ARTICLES	UNIT PRICE QUOTED	TOTALS
			PURCHASE OF A QUANTITY OF BUTTERFLY VALVES FOR THE JEFFERSON PARISH DEPARTMENT OF PUBLIC WORKS, WATER		
1	1	EA	0001 BUTTERFLY VALVE, 4 INCH PRATT TYPE 2FII FLANGED, JPWTP VERSION (CLASS 150B WITH MDT-2, 5 X 4 CYLINDER & 4-WAY SOLENOID)		
2	2	EA	0002 BUTTERFLY VALVE, 6 INCH PRATT, TYPE 2FII FLANGED, JPWTP VERSION (CLASS 150B WITH MDT-2, 5 X 4 CYLINDER AND 4-WAY SOLENOID)		
3	2	EA	0003 BUTTERFLY VALVE, 6 INCH PRATT TYPE MKII WAFER BUTTERFLY VALVE-JPWTP VERSION (CLASS 150B WITH MDT-2, 5 X 4 CYLINDER AND 4-WAY SOLENOID)		
4	3	EA	0004 BUTTERFLY VALVE, 10 INCH PRATT TYPE 2FII FLANGED, JPWTP VERSION (CLASS 150B WITH MDT-3, 8 X 6 CYLINDER AND 4-WAY SOLENOID)		
5	1	EA	0005 BUTTERFLY VALVE, 12 INCH PRATT TYPE 2FII FLANGED-JPWTP VERSION (CLASS 150B WITH MDT-3, 8 X 6 CYLINDER AND 4-WAY SOLENOID)		
6	1	EA	0006 BUTTERFLY VALVE, 20 INCH PRATT TYPE 2FII FLANGED, JPWTP VERSION (CLASS 150B WITH MDT-4, 10 X 8 CYLINDER AND 4-WAY SOLENOID)		
7	1	EA	0007 BUTTERFLY VALVE, 30 INCH PRATT, TYPE 2FII FLANGED, JPWTP VERSION (CLASS 150B WITH MDT-5, 10 X 11 CYLINDER AND 4-WAY SOLENOID)		

4 INCH PRATT TYPE 2FII FLANGED BUTTERFLY VALVE

Butterfly Valves for Jefferson Parish Department of Public Works –Water (Eastbank): **4 inch Pratt Type 2FII Flanged Butterfly Valve**-JPWTP Version (Class 150B with MDT-2, 5 X 4 Cylinder & 4-way Solenoid)

In strict accordance with the below specifications:

All Butterfly Valves shall be of the tight-closing, rubber-seat type with rubber seats that are securely fastened to the valve body. No metal-to-metal seating surfaces shall be permitted. Valves shall be bubble-tight at rated pressures with flow in either direction and shall be satisfactory for applications involving valve operations after long periods of inactivity.

Valve bodies shall be constructed of cast iron ASTM A-126, Class B. **Flange** drilling shall be in accordance with ANSI B16.1 standard for cast iron valves.

Valve discs shall be cast iron or ductile iron with a corrosion resistant edge of 316 stainless steel. Valves discs of 30 inches or larger shall be of the flow-through design to provide maximum CV and insure sound quality castings.

Valve shafts shall be turned, ground and polished, and constructed of 18-8 type 304 stainless steel.

All seats shall be synthetic rubber compound. Seats shall be retained in the valve body by mechanical means without retaining rings, segments, screws, or hardware of any kind in the flow stream, and protected from high velocity by recess mounting in the valve body. Seats that use rectangular epoxy keys and non-metallic cartridge inserts are not acceptable. The seat and disc mating edge shall be of a design that allows up to one (1) degree off center tolerance in the closed position without leakage.

Valves shall be fitted with sleeve-type bearings. Bearings shall be corrosion resistant and self-lubricating. Bearing load shall not exceed 1/5 of the compressive strength of the bearing or shaft material.

Shaft seals shall be self-adjusting chevron type. Shaft seals shall be of a design allowing replacement without removing the valve shaft.

Valve actuators shall be traveling nut type and shall be fully grease packed. All actuators shall have stops in the open/closed position. The valve actuators shall have a mechanical stop in the actuator, which will withstand an input torque of 450 ft./lbs. against the stop. The traveling nut shall engage alignment groove in the housing.

The actuators shall have a built-in packing leak bypass to eliminate packing leakage into the actuator housing.

All surfaces of the valve shall be clean, dry and free from grease before painting. Standard Pratt/JP painting applies. The valve surfaces except for the disc edge, rubber seat and finished portions shall be evenly coated with a suitable primer to inhibit rust or asphalt varnish in accordance with Federal specification TT-C-494B and AWWA Standard C504.

Testing hydrostatic and seat leakage tests shall be conducted in strict accordance with AWWA Standard C504.

Valve must be in full compliance with AWWA C504-87 Standard, Class 150B and equal in all respects to Pratt Model 2FII and XR.

Manual Actuators:

Manual actuators shall be of the traveling nut, self locking type and shall be designed to hold the valve in any intermediate position between fully open and fully closed without creeping or fluttering. Actuators shall be equipped with mechanical stop-limiting devices to prevent over travel of the disc in the open and closed positions. Valves shall close with a clockwise rotation. Actuators shall be fully enclosed and designed to produce the specified torque with a maximum pull of 80 lb. on the handwheel. Actuator components shall withstand an input of 450 ft./lbs. at extreme operator position without damage. Manual actuators shall be Pratt MDT type or equal.

Cylinder Actuators:

Cylinder actuators for all quarter turn valves shall be of the double acting non-metallic design utilizing a cast or ductile cast iron, cross head traveling nut, AWWA style gear of scotch yoke or link and lever design.

The cylinder actuators shall meet the requirements of AWWA C-504 and C-540. Cylinder actuators shall move the valve to any position from full open to full closed with a maximum of 125 lbs. and a minimum of 40 psig of air, oil or water pressure applied to the cylinder. All wetted parts of the cylinder shall be non-metallic except for the cylinder rod and tie rods, which shall be 18-8 stainless steel.

Rod seals shall be of the non-adjusting wear compensating type. Rod wiper for removing deposits inside the cylinder shall be provided in addition to the external dirt wiper. The piston design shall be three-piece with L-shaped cup seals.

The crosshead shall have integral tracks in the housing and dover to prevent side loading of the traveling nut. A relief shall be provided between the valve body and housing to vent line fluid to atmosphere. A manual handwheel mechanical override shall be provided on the crosshead.

Cylinder actuators shall be fitted with pneumatic four-way solenoid valves to serve as main control valves for dual acting cylinder. These valves direct the power supply to the proper side of the cylinder and at the same time, provide an exhaust line from the opposite side. Speed control valves shall be installed to limit valve opening/closing speed. Manual override control must be included.

6 INCH PRATT TYPE 2FII FLANGED BUTTERFLY VALVE

Butterfly Valves for Jefferson Parish Department of Public Works –Water (Eastbank): **6 inch Pratt Type 2FII Flanged Butterfly Valve**-JPWTP Version (Class 150B with MDT-2, 5 X 4 Cylinder & 4-way Solenoid)

In strict accordance with the below specifications:

All Butterfly Valves shall be of the tight-closing, rubber-seat type with rubber seats that are securely fastened to the valve body. No metal-to-metal seating surfaces shall be permitted. Valves shall be bubble-tight at rated pressures with flow in either direction and shall be satisfactory for applications involving valve operations after long periods of inactivity.

Valve bodies shall be constructed of cast iron ASTM A-126, Class B. **Flange** drilling shall be in accordance with ANSI B16.1 standard for cast iron valves.

Valve discs shall be cast iron or ductile iron with a corrosion resistant edge of 316 stainless steel. Valves discs of 30 inches or larger shall be of the flow-through design to provide maximum CV and insure sound quality castings.

Valve shafts shall be turned, ground and polished, and constructed of 18-8 type 304 stainless steel.

All seats shall be synthetic rubber compound. Seats shall be retained in the valve body by mechanical means without retaining rings, segments, screws, or hardware of any kind in the flow stream, and protected from high velocity by recess mounting in the valve body. Seats that use rectangular epoxy keys and non-metallic cartridge inserts are not acceptable. The seat and disc mating edge shall be of a design that allows up to one (1) degree off center tolerance in the closed position without leakage.

Valves shall be fitted with sleeve-type bearings. Bearings shall be corrosion resistant and self-lubricating. Bearing load shall not exceed 1/5 of the compressive strength of the bearing or shaft material.

Shaft seals shall be self-adjusting chevron type. Shaft seals shall be of a design allowing replacement without removing the valve shaft.

Valve actuators shall be traveling nut type and shall be fully grease packed. All actuators shall have stops in the open/closed position. The valve actuators shall have a mechanical stop in the actuator, which will withstand an input torque of 450 ft./lbs. against the stop. The traveling nut shall engage alignment groove in the housing.

The actuators shall have a built-in packing leak bypass to eliminate packing leakage into the actuator housing.

All surfaces of the valve shall be clean, dry and free from grease before painting. Standard Pratt/JP painting applies. The valve surfaces except for the disc edge, rubber seat and finished portions shall be evenly coated with a suitable primer to inhibit rust or asphalt varnish in accordance with Federal specification TT-C-494B and AWWA Standard C504.

Testing hydrostatic and seat leakage tests shall be conducted in strict accordance with AWWA Standard C504.

Valve must be in full compliance with AWWA C504-87 Standard, Class 150B and equal in all respects to Pratt Model 2FII and XR.

Manual Actuators:

Manual actuators shall be of the traveling nut, self locking type and shall be designed to hold the valve in any intermediate position between fully open and fully closed without creeping or fluttering. Actuators shall be equipped with mechanical stop-limiting devices to prevent over travel of the disc in the open and closed positions. Valves shall close with a clockwise rotation. Actuators shall be fully enclosed and designed to produce the specified torque with a maximum pull of 80 lb. on the handwheel. Actuator components shall withstand an input of 450 ft./lbs. at extreme operator position without damage. Manual actuators shall be Pratt MDT type or equal.

Cylinder Actuators:

Cylinder actuators for all quarter turn valves shall be of the double acting non-metallic design utilizing a cast or ductile cast iron, cross head traveling nut, AWWA style gear of scotch yoke or link and lever design.

The cylinder actuators shall meet the requirements of AWWA C-504 and C-540. Cylinder actuators shall move the valve to any position from full open to full closed with a maximum of 125 lbs. and a minimum of 40 psig of air, oil or water pressure applied to the cylinder. All wetted parts of the cylinder shall be non-metallic except for the cylinder rod and tie rods, which shall be 18-8 stainless steel.

Rod seals shall be of the non-adjusting wear compensating type. Rod wiper for removing deposits inside the cylinder shall be provided in addition to the external dirt wiper. The piston design shall be three-piece with L-shaped cup seals.

The crosshead shall have integral tracks in the housing and dover to prevent side loading of the traveling nut. A relief shall be provided between the valve body and housing to vent line fluid to atmosphere. A manual handwheel mechanical override shall be provided on the crosshead.

Cylinder actuators shall be fitted with pneumatic four-way solenoid valves to serve as main control valves for dual acting cylinder. These valves direct the power supply to the proper side of the cylinder and at the same time, provide an exhaust line from the opposite side. Speed control valves shall be installed to limit valve opening/closing speed. Manual override control must be included.

6 INCH PRATT TYPE MKII WAFER BUTTERFLY VALVE

Butterfly Valves for Jefferson Parish Department of Public Works –Water (Eastbank): **6 inch Pratt Type MKII Wafer Butterfly Valve**-JPWTP Version (Class 150B with MDT-2, 5 X 4 Cylinder & 4-way Solenoid)

In strict accordance with the below specifications:

All Butterfly Valves shall be of the tight-closing, rubber-seat type with rubber seats that are securely fastened to the valve body. No metal-to-metal seating surfaces shall be permitted. Valves shall be bubble-tight at rated pressures with flow in either direction and shall be satisfactory for applications involving valve operations after long periods of inactivity.

Valve bodies shall be constructed of cast iron ASTM A-126, Class B. **Wafer style mount**.

Valve discs shall be cast iron or ductile iron with a corrosion resistant edge of 316 stainless steel. Valves discs of 30 inches or larger shall be of the flow-through design to provide maximum CV and insure sound quality castings.

Valve shafts shall be turned, ground and polished, and constructed of 18-8 type 304 stainless steel.

All seats shall be synthetic rubber compound. Seats shall be retained in the valve body by mechanical means without retaining rings, segments, screws, or hardware of any kind in the flow stream, and protected from high velocity by recess mounting in the valve body. Seats that use rectangular epoxy keys and non-metallic cartridge inserts are not acceptable. The seat and disc mating edge shall be of a design that allows up to one (1) degree off center tolerance in the closed position without leakage.

Valves shall be fitted with sleeve-type bearings. Bearings shall be corrosion resistant and self-lubricating. Bearing load shall not exceed 1/5 of the compressive strength of the bearing or shaft material.

Shaft seals shall be self-adjusting chevron type. Shaft seals shall be of a design allowing replacement without removing the valve shaft.

Valve actuators shall be traveling nut type and shall be fully grease packed. All actuators shall have stops in the open/closed position. The valve actuators shall have a mechanical stop in the actuator, which will withstand an input torque of 450 ft./lbs. against the stop. The traveling nut shall engage alignment groove in the housing.

The actuators shall have a built-in packing leak bypass to eliminate packing leakage into the actuator housing.

All surfaces of the valve shall be clean, dry and free from grease before painting. Standard Pratt/JP painting applies. The valve surfaces except for the disc edge, rubber seat and finished portions shall be evenly coated with a suitable primer to inhibit rust or asphalt varnish in accordance with Federal specification TT-C-494B and AWWA Standard C504.

Testing hydrostatic and seat leakage tests shall be conducted in strict accordance with AWWA Standard C504.

Valve must be in full compliance with AWWA C504-87 Standard, Class 150B and equal in all respects to Pratt Model 2FII and XR.

Manual Actuators:

Manual actuators shall be of the traveling nut, self locking type and shall be designed to hold the valve in any intermediate position between fully open and fully closed without creeping or fluttering. Actuators shall be equipped with mechanical stop-limiting devices to prevent over travel of the disc in the open and closed positions. Valves shall close with a clockwise rotation. Actuators shall be fully enclosed and designed to produce the specified torque with a maximum pull of 80 lb. on the handwheel. Actuator components shall withstand an input of 450 ft./lbs. at extreme operator position without damage. Manual actuators shall be Pratt MDT type or equal.

Cylinder Actuators:

Cylinder actuators for all quarter turn valves shall be of the double acting non-metallic design utilizing a cast or ductile cast iron, cross head traveling nut, AWWA style gear of scotch yoke or link and lever design.

The cylinder actuators shall meet the requirements of AWWA C-504 and C-540. Cylinder actuators shall move the valve to any position from full open to full closed with a maximum of 125 lbs. and a minimum of 40 psig of air, oil or water pressure applied to the cylinder. All wetted parts of the cylinder shall be non-metallic except for the cylinder rod and tie rods, which shall be 18-8 stainless steel.

Rod seals shall be of the non-adjusting wear compensating type. Rod wiper for removing deposits inside the cylinder shall be provided in addition to the external dirt wiper. The piston design shall be three-piece with L-shaped cup seals.

The crosshead shall have integral tracks in the housing and dover to prevent side loading of the traveling nut. A relief shall be provided between the valve body and housing to vent line fluid to atmosphere. A manual handwheel mechanical override shall be provided on the crosshead.

Cylinder actuators shall be fitted with pneumatic four-way solenoid valves to serve as main control valves for dual acting cylinder. These valves direct the power supply to the proper side of the cylinder and at the same time, provide an exhaust line from the opposite side. Speed control valves shall be installed to limit valve opening/closing speed. Manual override control must be included.

10 INCH PRATT TYPE 2FII FLANGED BUTTERFLY VALVE

Butterfly Valves for Jefferson Parish Department of Public Works –Water (Eastbank): **10 inch Pratt Type 2FII Flanged Butterfly Valve**-JPWTP Version (Class 150B with MDT-3, 8 X 6 Cylinder & 4-way Solenoid)

In strict accordance with the below specifications:

All Butterfly Valves shall be of the tight-closing, rubber-seat type with rubber seats that are securely fastened to the valve body. No metal-to-metal seating surfaces shall be permitted. Valves shall be bubble-tight at rated pressures with flow in either direction and shall be satisfactory for applications involving valve operations after long periods of inactivity.

Valve bodies shall be constructed of cast iron ASTM A-126, Class B. **Flange** drilling shall be in accordance with ANSI B16.1 standard for cast iron valves.

Valve discs shall be cast iron or ductile iron with a corrosion resistant edge of 316 stainless steel. Valves discs of 30 inches or larger shall be of the flow-through design to provide maximum CV and insure sound quality castings.

Valve shafts shall be turned, ground and polished, and constructed of 18-8 type 304 stainless steel.

All seats shall be synthetic rubber compound. Seats shall be retained in the valve body by mechanical means without retaining rings, segments, screws, or hardware of any kind in the flow stream, and protected from high velocity by recess mounting in the valve body. Seats that use rectangular epoxy keys and non-metallic cartridge inserts are not acceptable. The seat and disc mating edge shall be of a design that allows up to one (1) degree off center tolerance in the closed position without leakage.

Valves shall be fitted with sleeve-type bearings. Bearings shall be corrosion resistant and self-lubricating. Bearing load shall not exceed 1/5 of the compressive strength of the bearing or shaft material.

Shaft seals shall be self-adjusting chevron type. Shaft seals shall be of a design allowing replacement without removing the valve shaft.

Valve actuators shall be traveling nut type and shall be fully grease packed. All actuators shall have stops in the open/closed position. The valve actuators shall have a mechanical stop in the actuator, which will withstand an input torque of 450 ft./lbs. against the stop. The traveling nut shall engage alignment groove in the housing.

The actuators shall have a built-in packing leak bypass to eliminate packing leakage into the actuator housing.

All surfaces of the valve shall be clean, dry and free from grease before painting. Standard Pratt/JP painting applies. The valve surfaces except for the disc edge, rubber seat and finished portions shall be evenly coated with a suitable primer to inhibit rust or asphalt varnish in accordance with Federal specification TT-C-494B and AWWA Standard C504.

Testing hydrostatic and seat leakage tests shall be conducted in strict accordance with AWWA Standard C504.

Valve must be in full compliance with AWWA C504-87 Standard, Class 150B and equal in all respects to Pratt Model 2FII and XR.

Manual Actuators:

Manual actuators shall be of the traveling nut, self locking type and shall be designed to hold the valve in any intermediate position between fully open and fully closed without creeping or fluttering. Actuators shall be equipped with mechanical stop-limiting devices to prevent over travel of the disc in the open and closed positions. Valves shall close with a clockwise rotation. Actuators shall be fully enclosed and designed to produce the specified torque with a maximum pull of 80 lb. on the handwheel. Actuator components shall withstand an input of 450 ft./lbs. at extreme operator position without damage. Manual actuators shall be Pratt MDT type or equal.

Cylinder Actuators:

Cylinder actuators for all quarter turn valves shall be of the double acting non-metallic design utilizing a cast or ductile cast iron, cross head traveling nut, AWWA style gear of scotch yoke or link and lever design.

The cylinder actuators shall meet the requirements of AWWA C-504 and C-540. Cylinder actuators shall move the valve to any position from full open to full closed with a maximum of 125 lbs. and a minimum of 40 psig of air, oil or water pressure applied to the cylinder. All wetted parts of the cylinder shall be non-metallic except for the cylinder rod and tie rods, which shall be 18-8 stainless steel.

Rod seals shall be of the non-adjusting wear compensating type. Rod wiper for removing deposits inside the cylinder shall be provided in addition to the external dirt wiper. The piston design shall be three-piece with L-shaped cup seals.

The crosshead shall have integral tracks in the housing and dover to prevent side loading of the traveling nut. A relief shall be provided between the valve body and housing to vent line fluid to atmosphere. A manual handwheel mechanical override shall be provided on the crosshead.

Cylinder actuators shall be fitted with pneumatic four-way solenoid valves to serve as main control valves for dual acting cylinder. These valves direct the power supply to the proper side of the cylinder and at the same time, provide an exhaust line from the opposite side. Speed control valves shall be installed to limit valve opening/closing speed. Manual override control must be included.

12 INCH PRATT TYPE 2FII FLANGED BUTTERFLY VALVE

Butterfly Valves for Jefferson Parish Department of Public Works –Water (Eastbank): **12 inch Pratt Type 2FII Flanged Butterfly Valve**-JPWTP Version (Class 150B with MDT-3, 8 X 6 Cylinder & 4-way Solenoid)

In strict accordance with the below specifications:

All Butterfly Valves shall be of the tight-closing, rubber-seat type with rubber seats that are securely fastened to the valve body. No metal-to-metal seating surfaces shall be permitted. Valves shall be bubble-tight at rated pressures with flow in either direction and shall be satisfactory for applications involving valve operations after long periods of inactivity.

Valve bodies shall be constructed of cast iron ASTM A-126, Class B. **Flange** drilling shall be in accordance with ANSI B16.1 standard for cast iron valves.

Valve discs shall be cast iron or ductile iron with a corrosion resistant edge of 316 stainless steel. Valves discs of 30 inches or larger shall be of the flow-through design to provide maximum CV and insure sound quality castings.

Valve shafts shall be turned, ground and polished, and constructed of 18-8 type 304 stainless steel.

All seats shall be synthetic rubber compound. Seats shall be retained in the valve body by mechanical means without retaining rings, segments, screws, or hardware of any kind in the flow stream, and protected from high velocity by recess mounting in the valve body. Seats that use rectangular epoxy keys and non-metallic cartridge inserts are not acceptable. The seat and disc mating edge shall be of a design that allows up to one (1) degree off center tolerance in the closed position without leakage.

Valves shall be fitted with sleeve-type bearings. Bearings shall be corrosion resistant and self-lubricating. Bearing load shall not exceed 1/5 of the compressive strength of the bearing or shaft material.

Shaft seals shall be self-adjusting chevron type. Shaft seals shall be of a design allowing replacement without removing the valve shaft.

Valve actuators shall be traveling nut type and shall be fully grease packed. All actuators shall have stops in the open/closed position. The valve actuators shall have a mechanical stop in the actuator, which will withstand an input torque of 450 ft./lbs. against the stop. The traveling nut shall engage alignment groove in the housing.

The actuators shall have a built-in packing leak bypass to eliminate packing leakage into the actuator housing.

All surfaces of the valve shall be clean, dry and free from grease before painting. Standard Pratt/JP painting applies. The valve surfaces except for the disc edge, rubber seat and finished portions shall be evenly coated with a suitable primer to inhibit rust or asphalt varnish in accordance with Federal specification TT-C-494B and AWWA Standard C504.

Testing hydrostatic and seat leakage tests shall be conducted in strict accordance with AWWA Standard C504.

Valve must be in full compliance with AWWA C504-87 Standard, Class 150B and equal in all respects to Pratt Model 2FII and XR.

Manual Actuators:

Manual actuators shall be of the traveling nut, self locking type and shall be designed to hold the valve in any intermediate position between fully open and fully closed without creeping or fluttering. Actuators shall be equipped with mechanical stop-limiting devices to prevent over travel of the disc in the open and closed positions. Valves shall close with a clockwise rotation. Actuators shall be fully enclosed and designed to produce the specified torque with a maximum pull of 80 lb. on the handwheel. Actuator components shall withstand an input of 450 ft./lbs. at extreme operator position without damage. Manual actuators shall be Pratt MDT type or equal.

Cylinder Actuators:

Cylinder actuators for all quarter turn valves shall be of the double acting non-metallic design utilizing a cast or ductile cast iron, cross head traveling nut, AWWA style gear of scotch yoke or link and lever design.

The cylinder actuators shall meet the requirements of AWWA C-504 and C-540. Cylinder actuators shall move the valve to any position from full open to full closed with a maximum of 125 lbs. and a minimum of 40 psig of air, oil or water pressure applied to the cylinder. All wetted parts of the cylinder shall be non-metallic except for the cylinder rod and tie rods, which shall be 18-8 stainless steel.

Rod seals shall be of the non-adjusting wear compensating type. Rod wiper for removing deposits inside the cylinder shall be provided in addition to the external dirt wiper. The piston design shall be three-piece with L-shaped cup seals.

The crosshead shall have integral tracks in the housing and dover to prevent side loading of the traveling nut. A relief shall be provided between the valve body and housing to vent line fluid to atmosphere. A manual handwheel mechanical override shall be provided on the crosshead.

Cylinder actuators shall be fitted with pneumatic four-way solenoid valves to serve as main control valves for dual acting cylinder. These valves direct the power supply to the proper side of the cylinder and at the same time, provide an exhaust line from the opposite side. Speed control valves shall be installed to limit valve opening/closing speed. Manual override control must be included.

20 INCH PRATT TYPE 2FII FLANGED BUTTERFLY VALVE

Butterfly Valves for Jefferson Parish Department of Public Works –Water (Eastbank): **20 inch Pratt Type 2FII Flanged Butterfly Valve**-JPWTP Version (Class 150B with MDT-4, 10 X 8 Cylinder & 4-way Solenoid)

In strict accordance with the below specifications:

All Butterfly Valves shall be of the tight-closing, rubber-seat type with rubber seats that are securely fastened to the valve body. No metal-to-metal seating surfaces shall be permitted. Valves shall be bubble-tight at rated pressures with flow in either direction and shall be satisfactory for applications involving valve operations after long periods of inactivity.

Valve bodies shall be constructed of cast iron ASTM A-126, Class B. **Flange** drilling shall be in accordance with ANSI B16.1 standard for cast iron valves.

Valve discs shall be cast iron or ductile iron with a corrosion resistant edge of 316 stainless steel. Valves discs of 30 inches or larger shall be of the flow-through design to provide maximum CV and insure sound quality castings.

Valve shafts shall be turned, ground and polished, and constructed of 18-8 type 304 stainless steel.

All seats shall be synthetic rubber compound. Seats shall be retained in the valve body by mechanical means without retaining rings, segments, screws, or hardware of any kind in the flow stream, and protected from high velocity by recess mounting in the valve body. Seats that use rectangular epoxy keys and non-metallic cartridge inserts are not acceptable. The seat and disc mating edge shall be of a design that allows up to one (1) degree off center tolerance in the closed position without leakage.

Valves shall be fitted with sleeve-type bearings. Bearings shall be corrosion resistant and self-lubricating. Bearing load shall not exceed 1/5 of the compressive strength of the bearing or shaft material.

Shaft seals shall be self-adjusting chevron type. Shaft seals shall be of a design allowing replacement without removing the valve shaft.

Valve actuators shall be traveling nut type and shall be fully grease packed. All actuators shall have stops in the open/closed position. The valve actuators shall have a mechanical stop in the actuator, which will withstand an input torque of 450 ft./lbs. against the stop. The traveling nut shall engage alignment groove in the housing.

The actuators shall have a built-in packing leak bypass to eliminate packing leakage into the actuator housing.

All surfaces of the valve shall be clean, dry and free from grease before painting. Standard Pratt/JP painting applies. The valve surfaces except for the disc edge, rubber seat and finished portions shall be evenly coated with a suitable primer to inhibit rust or asphalt varnish in accordance with Federal specification TT-C-494B and AWWA Standard C504.

Testing hydrostatic and seat leakage tests shall be conducted in strict accordance with AWWA Standard C504.

Valve must be in full compliance with AWWA C504-87 Standard, Class 150B and equal in all respects to Pratt Model 2FII and XR.

Manual Actuators:

Manual actuators shall be of the traveling nut, self locking type and shall be designed to hold the valve in any intermediate position between fully open and fully closed without creeping or fluttering. Actuators shall be equipped with mechanical stop-limiting devices to prevent over travel of the disc in the open and closed positions. Valves shall close with a clockwise rotation. Actuators shall be fully enclosed and designed to produce the specified torque with a maximum pull of 80 lb. on the handwheel. Actuator components shall withstand an input of 450 ft./lbs. at extreme operator position without damage. Manual actuators shall be Pratt MDT type or equal.

Cylinder Actuators:

Cylinder actuators for all quarter turn valves shall be of the double acting non-metallic design utilizing a cast or ductile cast iron, cross head traveling nut, AWWA style gear of scotch yoke or link and lever design.

The cylinder actuators shall meet the requirements of AWWA C-504 and C-540. Cylinder actuators shall move the valve to any position from full open to full closed with a maximum of 125 lbs. and a minimum of 40 psig of air, oil or water pressure applied to the cylinder. All wetted parts of the cylinder shall be non-metallic except for the cylinder rod and tie rods, which shall be 18-8 stainless steel.

Rod seals shall be of the non-adjusting wear compensating type. Rod wiper for removing deposits inside the cylinder shall be provided in addition to the external dirt wiper. The piston design shall be three-piece with L-shaped cup seals.

The crosshead shall have integral tracks in the housing and dover to prevent side loading of the traveling nut. A relief shall be provided between the valve body and housing to vent line fluid to atmosphere. A manual handwheel mechanical override shall be provided on the crosshead.

Cylinder actuators shall be fitted with pneumatic four-way solenoid valves to serve as main control valves for dual acting cylinder. These valves direct the power supply to the proper side of the cylinder and at the same time, provide an exhaust line from the opposite side. Speed control valves shall be installed to limit valve opening/closing speed. Manual override control must be included.

30 INCH PRATT TYPE 2FII FLANGED BUTTERFLY VALVE

Butterfly Valves for Jefferson Parish Department of Public Works –Water (Eastbank): **30 inch Pratt Type 2FII Flanged Butterfly Valve**-JPWTP Version (Class 150B with MDT-5, 12 X 11 Cylinder & 4-way Solenoid)

In strict accordance with the below specifications:

All Butterfly Valves shall be of the tight-closing, rubber-seat type with rubber seats that are securely fastened to the valve body. No metal-to-metal seating surfaces shall be permitted. Valves shall be bubble-tight at rated pressures with flow in either direction and shall be satisfactory for applications involving valve operations after long periods of inactivity.

Valve bodies shall be constructed of cast iron ASTM A-126, Class B. **Flange** drilling shall be in accordance with ANSI B16.1 standard for cast iron valves.

Valve discs shall be cast iron or ductile iron with a corrosion resistant edge of 316 stainless steel. Valves discs of 30 inches or larger shall be of the flow-through design to provide maximum CV and insure sound quality castings.

Valve shafts shall be turned, ground and polished, and constructed of 18-8 type 304 stainless steel.

All seats shall be synthetic rubber compound. Seats shall be retained in the valve body by mechanical means without retaining rings, segments, screws, or hardware of any kind in the flow stream, and protected from high velocity by recess mounting in the valve body. Seats that use rectangular epoxy keys and non-metallic cartridge inserts are not acceptable. The seat and disc mating edge shall be of a design that allows up to one (1) degree off center tolerance in the closed position without leakage.

Valves shall be fitted with sleeve-type bearings. Bearings shall be corrosion resistant and self-lubricating. Bearing load shall not exceed 1/5 of the compressive strength of the bearing or shaft material.

Shaft seals shall be self-adjusting chevron type. Shaft seals shall be of a design allowing replacement without removing the valve shaft.

Valve actuators shall be traveling nut type and shall be fully grease packed. All actuators shall have stops in the open/closed position. The valve actuators shall have a mechanical stop in the actuator, which will withstand an input torque of 450 ft./lbs. against the stop. The traveling nut shall engage alignment groove in the housing.

The actuators shall have a built-in packing leak bypass to eliminate packing leakage into the actuator housing.

All surfaces of the valve shall be clean, dry and free from grease before painting. Standard Pratt/JP painting applies. The valve surfaces except for the disc edge, rubber seat and finished portions shall be evenly coated with a suitable primer to inhibit rust or asphalt varnish in accordance with Federal specification TT-C-494B and AWWA Standard C504.

Testing hydrostatic and seat leakage tests shall be conducted in strict accordance with AWWA Standard C504.

Valve must be in full compliance with AWWA C504-87 Standard, Class 150B and equal in all respects to Pratt Model 2FII and XR.

Manual Actuators:

Manual actuators shall be of the traveling nut, self locking type and shall be designed to hold the valve in any intermediate position between fully open and fully closed without creeping or fluttering. Actuators shall be equipped with mechanical stop-limiting devices to prevent over travel of the disc in the open and closed positions. Valves shall close with a clockwise rotation. Actuators shall be fully enclosed and designed to produce the specified torque with a maximum pull of 80 lb. on the handwheel. Actuator components shall withstand an input of 450 ft./lbs. at extreme operator position without damage. Manual actuators shall be Pratt MDT type or equal.

Cylinder Actuators:

Cylinder actuators for all quarter turn valves shall be of the double acting non-metallic design utilizing a cast or ductile cast iron, cross head traveling nut, AWWA style gear of scotch yoke or link and lever design.

The cylinder actuators shall meet the requirements of AWWA C-504 and C-540. Cylinder actuators shall move the valve to any position from full open to full closed with a maximum of 125 lbs. and a minimum of 40 psig of air, oil or water pressure applied to the cylinder. All wetted parts of the cylinder shall be non-metallic except for the cylinder rod and tie rods, which shall be 18-8 stainless steel.

Rod seals shall be of the non-adjusting wear compensating type. Rod wiper for removing deposits inside the cylinder shall be provided in addition to the external dirt wiper. The piston design shall be three-piece with L-shaped cup seals.

The crosshead shall have integral tracks in the housing and dover to prevent side loading of the traveling nut. A relief shall be provided between the valve body and housing to vent line fluid to atmosphere. A manual handwheel mechanical override shall be provided on the crosshead.

Cylinder actuators shall be fitted with pneumatic four-way solenoid valves to serve as main control valves for dual acting cylinder. These valves direct the power supply to the proper side of the cylinder and at the same time, provide an exhaust line from the opposite side. Speed control valves shall be installed to limit valve opening/closing speed. Manual override control must be included.